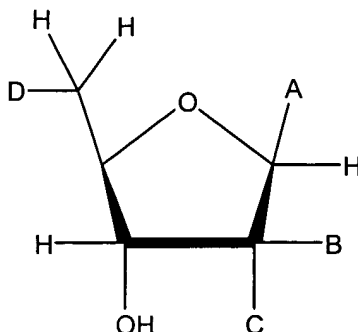


Amendments to the claims

The following claim amendments include the cancellation of claims 22-29, which were in unselected restriction groups.

1. (currently amended): A compound represented by the formula:



wherein

A is a ~~nitrogen-, oxygen-, or sulfur-linked aryl, alkyl, cyclic, or heterocyclic group, but not a pyrimidyl or substituted pyrimidyl group~~ a nicotinamide group, a pyridyl group, a substituted pyridyl group, a pyrimidyl group, an O-linked phenyl group, an O-linked substituted phenyl group, an O-linked pyridyl group, an O-linked substituted pyrimidyl group, an O-linked pyrimidyl group, an S-linked phenyl group, an S-linked substituted phenyl group, an S-linked pyridyl group, an S-linked substituted pyridyl group, or an S-linked pyrimidyl group;

B is hydrogen, or a halogen, amino, or thiol group;

C is hydrogen, or a halogen, amino, or thiol group; and

D is a hydrogen, or

an oxygen, nitrogen, carbon, or sulfur linked to

phosphate, a phosphoryl group, a pyrophosphoryl group, or adenosine monophosphate through a phosphodiester or carbon-, nitrogen-, or sulfur-substituted phosphodiester bridge, or to

adenosine diphosphate through a phosphodiester or carbon-, nitrogen-, or sulfur-substituted pyrophosphodiester bridge.

2 (previously presented): The compound of claim 1, wherein A is an N-linked aryl group.

3 (previously presented): The compound of claim 2, wherein A is a nicotinamide group, or a pyridyl group.

4 (original): The compound of claim 3, which is a nicotinamide 2'-deoxyriboside.

5 (original): The compound of claim 3, which is  $\beta$ -1'-nicotinamide-2'-deoxyribose,  $\beta$ -D-1'-nicotinamide-2'-deoxyribofuranoside,  $\beta$ -1'-pyridyl-2'-deoxyribose, or 5'-phospho-1'-pyridyl-deoxyribose.

6 (withdrawn): The compound of Claim 1, wherein A is an O-linked aryl or heterocyclic group having the formula -O-Y, wherein Y is an aryl or heterocyclic group.

7 (withdrawn): The compound of Claim 6, wherein the aryl or heterocyclic group is a phenyl group, a substituted phenyl group, a pyridyl group, a substituted pyridyl group, or a pyrimidyl group.

8 (withdrawn): The compound of Claim 1, wherein A is an S-linked aryl or heterocyclic group having the formula -S-Y, wherein Y is an aryl or heterocyclic group.

9 (withdrawn): The compound of Claim 8, wherein the aryl or heterocyclic group is a phenyl group, a substituted phenyl group, a pyridyl group, a substituted pyridyl group, or a pyrimidyl group.

10 (original): The compound of claim 1, wherein both B and C are hydrogen, or either B or C is a halogen, amino, or thiol group and the other of B or C is hydrogen.

11 (original): The compound of claim 2, wherein both B and C are hydrogen, or either B or C is a halogen, amino, or thiol group and the other of B or C is hydrogen.

12 (withdrawn): The compound of Claim 6, wherein both B and C are hydrogen, or either B or C is a halogen, amino, or thiol group and the other of B or C is hydrogen.

13 (withdrawn): The compound of Claim 8, wherein both B and C are hydrogen, or either B or C is a halogen, amino, or thiol group and the other of B or C is hydrogen.

14 (original): The compound of claim 1, wherein D is a primary alcohol or hydrogen.

15 (original): The compound of claim 2, wherein D is a primary alcohol or hydrogen.

16 (withdrawn): The compound of Claim 6, wherein D is a primary alcohol or hydrogen.

17 (withdrawn): The compound of Claim 8, wherein D is a primary alcohol or hydrogen.

18 (original): A pharmaceutical composition comprising the compound of claim 1 and a pharmaceutically-acceptable carrier.

19 (original): A pharmaceutical composition comprising the compound of claim 2 and a pharmaceutically-acceptable carrier.

20 (withdrawn): A pharmaceutical composition comprising the compound of Claim 6 and a pharmaceutically-acceptable carrier.

21 (withdrawn): A pharmaceutical composition comprising the compound of Claim 8 and a pharmaceutically-acceptable carrier.

22-29 (canceled)

30 (original): The compound of claim 3, wherein both B and C are hydrogen, or either B or C is a halogen, amino, or thiol group and the other of B or C is hydrogen.

31 (original): The compound of claim 4, wherein both B and C are hydrogen, or either B or C is a halogen, amino, or thiol group and the other of B or C is hydrogen.

32 (original): The compound of claim 5, wherein both B and C are hydrogen, or either B or C is a halogen, amino, or thiol group and the other of B or C is hydrogen.

33 (original): The compound of claim 3, wherein D is a primary alcohol or hydrogen.

34 (original): The compound of claim 4, wherein D is a primary alcohol or hydrogen.

35 (original): The compound of claim 5, wherein D is a primary alcohol or hydrogen.

36 (original): A pharmaceutical composition comprising the compound of claim 3 and a pharmaceutically-acceptable carrier.

37 (original): A pharmaceutical composition comprising the compound of claim 4 and a pharmaceutically-acceptable carrier.